

223316.ST25  
SEQUENCE LISTING

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AHMAD, Imran

<120> ANTI-APOTOPIC GENE SCC-S2 AND DIAGNOSTIC AND THERAPEUTIC USES  
THEREOF

<130> 223316

<150> US 60/264,062  
<151> 2001-01-26

<150> PCT/us02/02212  
<151> 2002-01-28

<160> 25

<170> PatentIn version 3.2

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<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> SCC-S2

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Lys Lys Ile Leu Gly Lys Met Val Ser Lys Ser Ile Ala Thr Thr Leu  
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Ile Asp Asp Thr Ser Ser Glu Val Leu Asp Glu Leu Tyr Arg Val Thr  
 35 40 45

Arg Glu Tyr Thr Gln Asn Lys Lys Glu Ala Glu Lys Lys Ile Lys Asn  
 50 55 60

Leu Ile Lys Thr Val Ile Lys Leu Ala Ile Leu Tyr Arg Asn Asn Gln  
 65 70 75 80

Phe Asn Gln Asp Glu Leu Ala Leu Met Glu Lys Phe Lys Lys Lys Val  
 85 90 95

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His Gln Leu Ala Met Thr Val Val Ser Phe His Gln Val Asp Tyr Thr  
100 105 110

Phe Asp Arg Asn Val Leu Ser Arg Leu Leu Asn Glu Cys Arg Glu Met  
115 120 125

Leu His Gln Ile Ile Gln Arg His Leu Thr Ala Lys Ser His Gly Arg  
130 135 140

Val Asn Asn Val Phe Asp His Phe Ser Asp Cys Glu Phe Leu Ala Ala  
145 150 155 160

Leu Tyr Asn Pro Phe Gly Asn Phe Lys Pro His Leu Gln Lys Leu Cys  
165 170 175

Asp Gly Ile Asn Lys Met Leu Asp Glu Glu Asn Ile  
180 185

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<213> Homo sapiens

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Asp Asp Thr Ser Ser Glu Val Leu Asp Glu Leu Tyr Arg Val Thr Arg  
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Glu Tyr Thr Gln Asn Lys Lys Glu Ala Glu Lys Ile Ile Lys Asn Leu  
20 25 30

Ile Lys Thr Val Ile Lys Leu Ala Ile Leu Tyr Arg Asn Asn Gln Phe  
35 40 45

Asn Gln Asp Glu Leu Ala Leu Met Glu Lys Phe Lys Lys Lys Val His  
50 55 60

Gln Leu  
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<223> CASH Alpha/Beta - fragment

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Asn Asp Val Ser Ser Leu Val Phe Leu Thr Arg Ile Thr Arg Asp Tyr  
1 5 10 15

Thr Gly Arg Gly Lys Ile Ala Lys Asp Lys Ser Phe Leu Asp Leu Val  
20 25 30

Ile Glu Leu Glu Lys Leu Asn Leu Ile Ala Ser Asp Gln Leu Asn Leu  
35 40 45

Leu Glu Lys Cys Leu Lys Asn Ile His Arg Ile  
50 55

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<212> PRT  
<213> Homo sapiens

<220>  
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Ser Asp Val Ser Ser Leu Ile Phe Leu Met Lys Asp Tyr Met Gly Arg  
1 5 10 15

Gly Lys Ile Ser Lys Glu Lys Ser Phe Leu Asp Leu Val Val Glu Leu  
20 25 30

Glu Lys Leu Asn Leu Val Ala Pro Asp Gln Leu Asp Leu Leu Glu Lys  
35 40 45

Cys Leu Lys Asn Ile His Arg Ile  
50 55

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<212> PRT  
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<223> FLIP (L) - fragment

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Asn Asp Val Ser Ser Leu Val Phe Leu Thr Arg Asp Tyr Thr Gly Arg  
1 5 10 15

Gly Lys Ile Ala Lys Asp Lys Ser Phe Leu Asp Leu Val Ile Glu Leu  
20 25 30

Glu Lys Leu Asn Leu Ile Ala Ser Asp Gln Leu Asn Leu Leu Glu Lys  
35 40 45

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Cys Leu Lys Asn Ile His Arg Ile  
50 55

<210> 7  
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<213> Homo sapiens

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Ser Asp Val Ser Ser Leu Ile Phe Leu Met Lys Asp Tyr Met Gly Arg  
1 5 10 15

Gly Lys Ile Ser Lys Glu Lys Ser Phe Leu Asp Leu Val Val Glu Leu  
20 25 30

Glu Lys Leu Asn Leu Val Ala Pro Asp Gln Leu Asp Leu Leu Glu Lys  
35 40 45

Cys Leu Lys Asn Ile His Arg Ile  
50 55

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<212> PRT  
<213> Mus musculus

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<223> FLICE (Casp8) - fragment

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Leu Glu Leu Arg Ser Phe Lys Phe Leu Leu Asn Asn Glu Ile Pro Lys  
1 5 10 15

Cys Lys Leu Glu Asp Asp Leu Ser Leu Leu Glu Ile Phe Val Glu Met  
20 25 30

Glu Lys Arg Thr Met Leu Ala Glu Asn Asn Leu Glu Thr Leu Lys Ser  
35 40 45

Ile Cys Asp Gln Val Asn Lys Ser  
50 55

<210> 9  
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<212> PRT  
<213> Homo sapiens

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<220>  
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<223> FLICE (Casp8) - fragment  
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Ser Glu Leu Arg Ser Phe Lys Phe Leu Leu Gln Glu Glu Ile Ser Lys  
1 5 10 15

Cys Lys Leu Asp Asp Asp Met Asn Leu Leu Asp Ile Phe Ile Glu Met  
20 25 30

Glu Lys Arg Val Ile Leu Gly Glu Gly Lys Leu Asp Ile Leu Lys Arg  
35 40 45

Val Cys Ala Gln Ile Asn Lys Ser  
50 55

<210> 10  
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<212> PRT  
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<223> SCC-S2 - fragment  
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Ser Ser Glu Val Leu Asp Glu Leu Tyr Arg Val Thr Arg Glu Tyr Thr  
1 5 10 15

Gln Asn Lys Lys Glu Ala Glu Lys Ile Ile Lys Asn Leu Ile Lys Thr  
20 25 30

Val Ile Lys Leu Ala Ile Leu Tyr Arg Asn Asn Gln Phe Asn Gln Asp  
35 40 45

Glu Leu Ala Leu Met  
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<212> PRT  
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<223> Poliovirus 1 VP1 - fragment  
<400> 11

Thr Gln Gln Ile Ser Asp Lys Ile Thr Glu Leu Thr Asn Met Val Thr  
1 5 10 15

223316.ST25  
Ser Thr Ile Thr Glu Lys Leu Leu Lys Asn Leu Ile Lys Ile Ile Ser  
20 25 30

Ser Leu Val Ile Ile Thr Arg Asn Tyr Glu Asp Thr Thr Thr Val Leu  
35 40 45

Ala Thr Leu  
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<210> 12  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Poliovirus 2 Polyprotein - fragment

<400> 12

Thr Gln Gln Ile Gly Asp Lys Val Ser Glu Leu Thr Ser Met Val Thr  
1 5 10 15

Ser Thr Ile Thr Glu Lys Leu Leu Lys Asn Leu Ile Lys Ile Ile Ser  
20 25 30

Ser Leu Val Ile Ile Thr Arg Asn Tyr Glu Asp Thr Thr Thr Val Leu  
35 40 45

Ala Thr Leu  
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<210> 13  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Poliovirus 3 Polyprotein - fragment

<400> 13

Thr Gln Gln Ile Gly Asp Lys Ile Ser Glu Leu Thr Ser Met Val Thr  
1 5 10 15

Ser Thr Ile Thr Glu Lys Leu Leu Lys Asn Leu Ile Lys Ile Ile Ser  
20 25 30

Ser Leu Val Ile Ile Thr Arg Asn Tyr Glu Asp Thr Thr Thr Val Leu  
35 40 45

Ala Thr Leu  
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<210> 14  
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<212> PRT  
<213> Homo sapiens

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1 5 10 15

Ser Thr Ile Thr Glu Lys Leu Leu Lys Asn Leu Ile Lys Ile Ile Ser  
20 25 30

Ser Leu Val Ile Ile Thr Arg Asn Tyr Glu Asp Thr Thr Thr Val Leu  
35 40 45

Ala Thr Leu  
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<210> 15  
<211> 52  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<223> SCC-S2 - fragment

<400> 15

Ser Ser Glu Val Leu Asp Glu Leu Tyr Arg Val Thr Arg Glu Tyr Thr  
1 5 10 15

Gln Asn Lys Lys Glu Ala Glu Lys Ile Ile Lys Asn Leu Ile Lys Thr  
20 25 30

Val Ile Lys Leu Ala Ile Leu Tyr Arg Asn Asn Gln Phe Asn Gln Asp  
35 40 45

Glu Leu Ala Leu  
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<210> 16  
<211> 53  
<212> PRT  
<213> Vaccinia virus

<220>  
<221> MISC\_FEATURE  
<223> DNA Polymerase - fragment

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<400> 16

Ser Ser Asn Ser Lys Ser Val Pro Glu Arg Ile Asn Lys Gly Thr Ser  
1 5 10 15

Glu Thr Arg Arg Asp Val Ser Lys Phe His Lys Asn Met Ile Lys Thr  
20 25 30

Tyr Lys Thr Arg Leu Ser Glu Met Leu Ser Glu Gly Arg Met Asn Ser  
35 40 45

Asn Gln Val Cys Ile  
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<210> 17

<211> 42

<212> PRT

<213> Homo sapiens

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<221> MISC\_FEATURE

<223> SCC-S2 - fragment

<400> 17

Thr Leu Ile Asp Asp Thr Ser Ser Glu Val Leu Asp Glu Leu Tyr Arg  
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Val Thr Arg Glu Tyr Thr Gln Asn Lys Lys Glu Ala Glu Lys Ile Ile  
20 25 30

Lys Asn Leu Ile Lys Thr Val Ile Lys Leu  
35 40

<210> 18

<211> 46

<212> PRT

<213> Canine adenovirus

<220>

<221> MISC\_FEATURE

<223> DNA Pol - fragment

<400> 18

Thr Leu Ile Pro Asp Thr Arg Thr Thr Val Phe Pro Glu Trp Lys Cys  
1 5 10 15

Leu Ala Arg Glu Tyr Val Gln Leu Asn Ile Ser Ala Lys Glu Glu Ala  
20 25 30

Asp Lys Ser Lys Asn Gln Thr Met Arg Ser Ile Ala Lys Leu  
35 40 45

<210> 19

223316.ST25

<211> 54  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<223> SCC-S2 - fragment

<400> 19

Lys Lys Glu Ala Glu Lys Ile Ile Lys Asn Leu Ile Lys Thr Val Ile  
1 5 10 15

Lys Leu Ala Ile Leu Tyr Arg Asn Gln Phe Asn Gln Asp Glu Leu Ala  
20 25 30

Leu Met Glu Lys Phe Lys Lys Val His Gln Leu Ala Met Thr Val  
35 40 45

Val Ser Phe His Gln Val  
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<210> 20  
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<212> PRT  
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<220>  
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<223> Alpha1 (E) - Catenin - fragment

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Ala Lys Lys Ile Ala Glu Ala Gly Ser Arg Met Asp Lys Leu Gly Arg  
1 5 10 15

Thr Ile Ala Asp His Cys Pro Asp Ser Ala Cys Lys Gln Asp Leu Leu  
20 25 30

Ala Tyr Leu Gln Arg Ile Ala Leu Tyr Cys His Gln Leu Asn Ile Cys  
35 40 45

Ser Lys Val Lys Ala Glu Val  
50 55

<210> 21  
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<212> PRT  
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<220>  
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<223> Alpha2 (E) - Catenin - fragment

<400> 21

223316.ST25  
Ala Lys Lys Ile Ala Glu Ala Gly Ser Arg Met Asp Lys Leu Ala Arg  
1 5 10 15

Ala Val Ala Asp Gln Cys Pro Asp Ser Ala Cys Lys Gln Asp Leu Leu  
20 25 30

Ala Tyr Leu Gln Arg Ile Ala Leu Tyr Cys His Gln Leu Asn Ile Cys  
35 40 45

Ser Lys Val Lys Ala Glu Val  
50 55

<210> 22  
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<212> PRT  
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<223> Vinculin - fragment

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Ala Lys Asp Ile Ala Lys Ala Ser Asp Glu Val Thr Arg Leu Ala Lys  
1 5 10 15

Glu Val Ala Lys Gln Cys Thr Asp Lys Arg Ile Arg Thr Asn Leu Leu  
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Gln Val Cys Glu Arg Ile Pro Thr Ile Ser Thr Gln Leu Lys Ile Leu  
35 40 45

Ser Thr Val Lys Ala Ile Met  
50 55

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<220>  
<223> Primer

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27

<210> 24  
<211> 57  
<212> DNA  
<213> Artificial

<220>  
<223> Primer

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57

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<210> 25  
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<220>  
<223> SCC-S2 Fragment

<400> 25

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Lys